11-14-05

PTO/SB/21 (04-04) Approved for use through 07/31/2006. OMB 0651-0031

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#### **Application Number** 10/643.674 TRANSMITTAL August 19, 2003 Filing Date **FORM** First Named Inventor HYON et al. (to be used for all correspondence after initial filing) 1711 Art Unit BERMAN, Susan W. **Examiner Name**

Total Number of Pages in This Submission Attorney Docket Number 1736-000001/REB ENCLOSURES (check all that apply) After Allowance Communication to Fee Transmittal Form (in Duplicate) Drawing(s) Technology Center (TC) Appeal Communication to Board of Fee Attached Licensing-related Papers Appeals and Interferences Petition Appeal Communication to TC Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Proprietary Information Provisional Application Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address Terminal Disclaimer Other Enclosure(s) Extension of Time Request (please identify below): Form 1449; 1 Foreign Patent; 5 Request for Refund **Other Documents** Express Abandonment Request CD, Number of CD(s) \_\_\_\_ Supplemental Information Disclosure Statement Remarks The Commissioner is hereby authorized to charge any additional Certified Copy of Priority fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Document(s) Account No. 08-0750. Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Reg. No. Firm Attorney Name Harness, Dickey & Pierce, P.L.C. David L. Suter 30,692 Individual name Signature Date November 10, 2005

#### **CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Davidt Sute	Express Mail Label No.	EV 717 344 619 US (11/10/2005)
Signature		Date	November ( 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**FEE TRANSMITTAL** for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

Name (Print/Type)

Signature

(\$) 1	80
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Complete if Known				
Application Number	10/643,674			
Filing Date	August 19, 2003			
First Named Inventor	HYON et al.			
Examiner Name	BERMAN, Susan W.			
Art Unit	1711			
Attorney Docket No.	1736-000001/REB			

METHOD OF PAYMENT (check all that apply)				Γ			FEE C	ALCULATION (continued)		
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Account Number	08-0750				1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
D4					1053	130	1053	130	Non-English specification	
Deposit Account	Harness Dickey	y & Pierce, P.L.C.			1812	2,520	1812	2,520	For filing a request for reexamination	
Name					1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
The Director is au Charge fee(s) ir	dicated below 🛭	Credit any ove	rpayments		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
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		Design filing fee		-	1403	1000	2403	500	Request for oral hearing	
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2. EXTRA CLA	IIIVI FEES FOR	Extra F	ee from Fee		1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
Total Claims	-20 ** = [	Claims b	elow Paid = 0	]	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
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SUBMITTED BY									Complete (if applicable)	

30,692

Telephone

Date

(248) 641-1600

November 10

, 2005

Registration No. (Attorney/Agent)



#### **PATENT**

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/643,674

Filing Date:

August 19, 2003

Applicant:

HYON et al.

**Group Art Unit:** 

1711

Examiner:

BERMAN, Susan W.

Title:

ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE

MOLDED ARTICLE FOR ARTIFICIAL JOINTS AND METHOD

OF PREPARING THE SAME

Attorney Docket:

1736-000001/REB

Mail Stop AMENDMENT
Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

# I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

## II. <u>COPIES</u>

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to

11/16/2005 CNGUYEN 00000060 10643674

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Serial No. 10/643,674

	the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.  B.   Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:
	U.S. Serial Number U.S. Filing Date
<b>III.</b>	C. This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search report are listed on the attached Form 1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).)
	A. $\boxtimes$ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).
	B. $\boxtimes$ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):
	1. ☐ See the attached foreign patent office communication from a counterpart foreign application:
	2. English translations are provided:
	3. Other: English Abstract for Other Document No. 5 (Streicher), see p. 303 of the document.
	C. $\square$ The following additional information is provided for the Examiner's consideration.

IV.	CROSS REFERENC	E TO RELATED APPLICA	TION(S)	
	contain(s) subject m bringing this(these) a	r is advised that the foll atter that may be related application(s) to the Exami nfidentiality provisions of 3	to the present application to the present application at the total terms of the total ter	n. By
	<u>Serial No.</u>	Filing Date	Art Unit	
V.	THIS IDS IS BEING I	FILED UNDER		
	A. 37 C.F.R. § 1.9	<b>7(b):</b> (check <u>only</u> one box)		
	than a continu	ree months of the filing da ued prosecution application ofee or certification is requ	n under § 1.53(d) (37 C	
	forth in § 1.49	ree months of the date of 1 in an international application is required.		
	1.97(b)(3)). NOffice Action under 37 C.F	ne mailing of a first Office and lo fee or certification is reson the merits has been in the first or, if no certification has in the amount of \$180.00 and the second control of \$180.00 and the amount	equired. In the event that ssued, please consider the c certification under 37 C been made, charge our	t a first nis IDS .F.R. § deposit
		ne mailing of a first Office a examination under 37 C.F.I		
	В. 🔀 <b>37 С.F.R. § 1.9</b>	7(c): (check only one box)		
	1.113, a Notic	iling date of either any Fina se of Allowance under 37 es prosecution.		
	1. ⊠ No certif by 37 C.F.R. §	ication; therefore, a fee in t 1.17(p).	the amount of \$180.00 is re	equired
	2. See the	certification below. No fee	is required.	

	C. 37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
<b>/</b> I.	CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
	The undersigned hereby certifies that:
	A.   each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)).   See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or
	B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
	C. some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.
VII.	STATEMENT UNDER 37 C.F.R. 1.704(d)
	The undersigned hereby states that:
	each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

# VIII. PAYMENT OF FEES (check only one box)

- A. \( \times \) A check in the amount of \$180.00 is enclosed for the above identified fee.
- B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: November 10 , 2005

David L. Suter, Reg. No. 30,692

Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

DLS/sem



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# PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 1

ATTORNEY DOCKET No.	SERIAL NO.
1736-000001/REB	10/643,674
APPLICANT	
HYON et al.	
FILING DATE	GROUP
August 19, 2003	1711

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		3,563,870	Feb. 16, 1971	Tung et al.		
2.		4,586,995	May 6, 1986	Randall et al.		
3.		4,668,577	May 26, 1987	Ohta et al.		
4.		5,160,464	Nov. 3, 1992	Ward et al.		

FORE	FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No	
<b>.</b> 1.		CA 1257745	Jul. 18, 1989	Canada		N/A		

OTHE	R DOCUME	NTS (including Author, Title, Date, Pertinent Pages, etc.)
Ref. Desig.	Examiner's Initials	
1.		Bhateja et al. "Radiation-Induced Crystallinity Changes in Linear Polyethylene," <i>Journal of Polymer Science: Polymer Physics Edition</i> , Vol. 21 (1983) p. 523-536.
2.		Bhateja, S.K. "Radiation-Induced Crystallinity Changes in Linear Polyethylene: Influence of Aging," <i>Journal of Applied Polymer Science</i> , Vol. 28 (1983) p. 861-872.
3.		Muratoglu et al. "A Novel Method of Cross-Linking Ultra-High-Molecular-Weight Polyethylene to Improve Wear, Reduce Oxidation, and Retain Mechanical Properties," <i>The Journal of Arthroplasty</i> , Vol. 16, No. 2 (2001) p. 149-160.
4.		Shinde et al., "Irradiation of Ultrahigh-Molecular-Weight Polyethylene," <i>Journal of Polymer Science: Polymer Physics Edition</i> , Vol. 23 (1985) p. 1681-1689.
5.		Streicher, R.M. "UHMW-Polyethylen als Werkstoff für artikulierende Komponenten von Gelenkendoprothesen (UHMW Poyethylene Used as a Material for the Articulating Components of Endoprostheses)," <i>Biomed. Technik</i> , Vol. 38, No. 12 (1993) p. 303-313. (See English Abstract)

Examiner:	Date Considered: